

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in this application.

1. (previously presented) Process for producing hydrogen-containing fuel gases for fuel cells by catalytic reforming of hydrocarbons and subsequent gas purification, wherein the catalytic reforming has two successive stages of which the first stage comprises autothermal reforming and the second stage comprises downstream steam reforming at temperatures below 650°C, wherein the reformate mixture at the outlet of the autothermal reforming stage has a residual hydrocarbon content of from 0.1 to 10% by volume.
2. (previously presented) Process according to Claim 1, characterized in that the catalytic reforming is carried out adiabatically and the reformate mixture at the outlet from the first stage of autothermal reforming has a temperature of from 650 to 850°C.
3. (previously presented) Process according to Claim 1, characterized in that the reformate mixture at the outlet from the second stage of steam reforming has a temperature of from 400 to 650°C.
4. (previously presented) Process according to Claim 1, wherein the water necessary for steam reforming is added separately or together with the hydrocarbon before the second stage.
5. (previously presented) Process according to Claim 1, characterized in that catalysts comprising support bodies to which supported catalysts containing noble metals have been applied are used for both stages.

6. (previously presented) Process according to Claim 5, characterized in that one or more noble metals from the group consisting of rhodium, platinum and palladium immobilized on oxidic support materials are used as catalysts for the autothermal reforming and one or more noble metals from the group consisting of gold, rhodium and platinum immobilized on oxidic support materials are used as catalysts for the steam reforming.
7. (previously presented) Process according to Claim 1, characterized in that the fuel gas after the two-stage reforming is passed directly without interposition of one or more heat exchangers to a gas purification stage.
8. (previously presented) Process according to Claim 1, characterized in that the gas purification stage comprises one or more water gas shift stages or one or more gas separation membranes.
9. (currently amended) Apparatus in accordance with claim 10 for producing hydrogen-containing fuel gases for fuel cells which comprises by catalytic reforming of hydrocarbons and subsequent gas purification, comprising two successive reactor stages for catalytic reforming, with the first reactor stage having at least one catalyst for autothermal reforming and the second reactor stage having at least one catalyst for steam reforming and wherein the water necessary for steam reforming is added separately or together with the hydrocarbon before the second reactor stage by means of nozzles or injectors.
10. (currently amended) An apparatus that produces hydrogen-containing fuel gases for fuel cells by the process of claim 1 ~~A mobile or stationary fuel cell in which the process of claim 1 is used.~~

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11. (currently amended) A mobile or stationary fuel cell comprising in which the apparatus of claim 9 ~~is used~~.